ALLOWANCE

Acknowledgements

1.   This action is responsive to Applicants' amendments received 6 May 2010.

2.   This action has been assigned paper number 20100713 for reference purposes only.

3.   Claims 1, 4-6, 8-14, 16, 19-29, 32, 33, 35-39, 41, 42, and 44-46 are pending.

4.   Claims 1, 4-6, 8-14, 16, 19-29, 32, 33, 35-39, 41, 42, and 44-46 have been examined.

5.   Claims 1, 4-6, 8-14, 16, 19-29, 32, 33, 35-39, 41, 42, and 44-46 are allowed herein.

Response to Amendment

6.   Applicants' proposed amendments on 5 May 2010, 6 May 2010, and 10 May 2010 in

response to telephonic discussions with Jamie Rossi (on behalf of Kevin Zilka) on those dates,

are entered by means of the Examiner's Amendment below. The Examiner agrees with the

substance of the interview summaries included with the amendments.

EXAMINER'S AMENDMENT

7.   An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

8.   Authorization for this Examiner's Amendment was given by telephone from Kevin Zilka

(Reg. #41,429) 21 May 2010.

9.   A complete listing of the claims, as amended by the Examiner, with markings in

accordance with 37 CFR § 1.121, follows:

1. (Currently Amended) A method for carrying out a computer-implemented transaction,

comprising:

        storing in memory a transaction pattern detailing a transaction associated with a single

user; and

        executing the transaction pattern to carry out another transaction;

        wherein the transaction pattern includes a record of: information submitted by the single

user, user actions taken by the single user, system actions taken by a system in response to the

information and the user actions in order to generate results, and the results that are sent to the

single user;

        wherein the storage of the transaction pattern includes storage of records of a navigation

of the single user during the transaction;

        wherein the transaction pattern further includes information submitted by the single user,

in each form and in each step of a login and account access process;

        wherein the transaction pattern further includes a record of the actions taken by the

system which enable access of the single user to data, and actions enabled by the data to retrieve

content;

        wherein the execution of the transaction pattern includes recognizing a state of a remote

application in its interaction with the single user, the state representing an action to be performed

by the remote application.

2. (Cancelled)

3. (Cancelled)

4. (Previously Presented) The method as recited in claim 1, wherein the storage of

the transaction pattern includes the storage of records relating to an interface presented to the

single user.

5. (Previously Presented) The method as recited in claim 1, wherein the storage of

the transaction pattern includes the storage of records relating to the submission of information

by the single user,

6. (Original) The method as recited in claim 1, wherein the storage of the transaction

pattern includes the storage of parameters required to complete the transaction,

7. (Canceled)

8. (Previously Presented) The method as recited in claim 1, wherein the storage of

the transaction pattern includes the storage of information returned to the single user by the

system.

9. (Previously Presented) The method as recited in claim 1, wherein the storage of

the transaction pattern includes the storage of information selected by the single user.

10. (Previously Presented) The method as recited in claim 1, wherein the execution of the

transaction pattern includes retrieval of the transaction pattern by at least one of an automated

agent and a programmable agent.

11. (Previously Presented) The method as recited in claim 1, wherein the execution of the

transaction pattern includes submission of required parameters during the other transaction.

12. (Previously Presented) The method as recited in claim 1, wherein the execution of the

transaction pattern involves automatic navigation during the other transaction.

13. (Previously Presented) The method as recited in claim 1, wherein the execution of the

transaction pattern includes retrieval of the content.

14. (Previously Presented) The method as recited in claim 1, wherein the execution of the

transaction pattern includes relaying the content to the single user.

15. (Cancelled).

16. (Currently Amended) A computer program product, embodied on a <u>non-transitory</u> computer readable medium and capable of execution on a computer, for carrying out a computer-implemented transaction, comprising:

computer code for storing in memory a transaction pattern detailing a transaction associated with a single user; and

computer code for executing the transaction pattern to carry out another transaction;

wherein the transaction pattern includes a record of: information submitted by the single user, user actions taken by the single user, system actions taken by a system in response to the information and the user actions in order to generate results, and the results that are sent to the single user;

wherein the storage of the transaction pattern includes storage of records for a navigation of the single user during the transaction;

wherein the transaction pattern further includes information submitted by the single user, in each form and in each step of a login and account access process;

wherein the transaction pattern further includes a record of the actions taken by the system which enable access of the single user to data, and actions enabled by the data to retrieve content;

wherein the computer code is operable such that the execution of the transaction pattern includes recognizing a state of a remote application <u>in its interaction with the single user, the state representing an action to be performed by the remote application.</u>

17. (Cancelled)

18. (Cancelled)

19. (Previously Presented) The computer program product as recited in claim 16, wherein the storage of the transaction pattern includes the storage of records relating to an interface presented to the single user.

20. (Previously Presented) The computer program product as recited in claim 16, wherein the storage of the transaction pattern includes the storage of records relating to the submission of information by the single user.

21. (Original) The computer program product as recited in claim 16, wherein the storage of the transaction pattern includes the storage of parameters required to complete the transaction.

22. (Previously Presented) The computer program product as recited in claim 16, wherein the storage of the transaction pattern includes the storage of records relating to the navigation of the single user during the transaction.

23. (Previously Presented) The computer program product as recited in claim 16, wherein the

storage of the transaction pattern includes the storage of information returned to the single user

by the system.

24. (Previously Presented) The computer program product as recited in claim 16, wherein the

storage of the transaction pattern includes {.he storage of information selected by the single user.

25. (Previously Presented) The computer program product as recited in claim 16, wherein the

execution of the transaction pattern includes retrieval of the transaction pattern by at least one of

an automated agent and a programmable agent.

26. (Previously Presented) The computer program product as recited in claim 16, wherein the

execution of the transaction pattern includes submission of required parameters during the other

transaction.

27. (Previously Presented) The computer program product as recited in claim 16, wherein the

execution of the transaction pattern involves automatic navigation during the other transaction.

28. (Previously Presented) The computer program product as recited in claim 16, wherein the

execution of the transaction pattern includes retrieval of the content.

29. (Previously Presented) The computer program product as recited in claim 16, wherein the

execution of the transaction pattern includes relaying the content to the single user.

30. (Cancelled)

31. (Cancelled)

32. (Currently Amended) The method as recited in claim 1̶5̶, wherein the remote application is
an electronic commerce application.

33. (Currently Amended) A method for carrying out a computer-implemented transaction,
comprising:

> recording information submitted by a single user as part of a transaction associated with
the single user;

> recording user actions taken by the single user as part of the transaction;

> recording system actions taken by a system in response to the information and the user
actions in order to generate results as part of the transaction;

> recording the results that are sent to the single user as part of the transaction;

> generating a transaction pattern based on the recorded information;

> storing the transaction pattern in memory; and

> executing the transaction pattern to automatically carry out another transaction upon
receiving a user request for the transaction;

> wherein the storage of the transaction pattern includes storage of records of a navigation
of the single user during the transaction;

wherein the transaction pattern includes information submitted by the single user, in each

form and in each step of a login and account access process;

wherein the transaction pattern further includes a record of actions taken by the system

which enable access of the single user to data, and actions enabled by the data to retrieve content;

wherein the execution of the transaction pattern includes recognizing a state of a remote

application in its interaction with the single user, the state representing an action to be performed

by the remote application.

34. (Cancelled)

35. (Previously Presented) The method as recited in claim 33, wherein the storage of the

transaction pattern includes the storage of information returned to the single user by the system.

36. (Previously Presented) The method as recited in claim 33, wherein the storage of the

transaction pattern includes the storage of information selected by the single user.

37. (Previously Presented) The method as recited in claim 33, wherein the execution of the

transaction pattern includes retrieval of the transaction pattern by at least one of an automated

agent and a programmable agent.

38. (Previously Presented) The method as recited in claim 33, wherein the execution of the

transaction pattern involves automatic navigation during the other transaction.

39. (Previously Presented) The method as recited in claim 33, wherein the execution of the transaction pattern includes relaying the content to the single user.

40. (Cancelled)

41. (Currently Amended) A method for carrying out a computer-implemented electronic commerce (e-commerce) transaction, comprising:

storing in memory a transaction pattern detailing a transaction associated with a single user, wherein the transaction pattern includes a record of:

creation of and actions associated with forms presented in a web-interface with which the single user submits information;

information submitted by the single user, in forms presented in an e- commerce flow;

an internal process whereby the submitted information is sent to servers and databases of an e-commerce site;

navigation of the single user within the e-commerce process;

system actions taken by a system in response to the information and the creation and actions in order to generate results; and

the results returned by the e-commerce site once the submitted information has been processed; and

executing the transaction pattern to carry out another transaction;

wherein the transaction pattern further includes information submitted by the single user, in each form and in each step of a login and account access process;

wherein the transaction pattern further includes a record of actions taken by the system which enable access of the single user to data, and actions enabled by the data to retrieve content;

wherein the execution of the transaction pattern includes recognizing a state of a remote application in its interaction with the single user, the state representing an action to be performed by the remote application.

42. (Currently Amended) A method for carrying out a computer-implemented transaction, comprising:

recording information submitted by a single user as part of a transaction associated with the single user;

recording user actions taken by the single user as part of the transaction;

recording system actions taken by a system in response to the information and the user actions in order to generate results as part of the transaction;

recording the results that are sent to the single user as part of the transaction;

recording actions taken by the system which enable the single user to access data;

recording actions enabled by the data to retrieve content; generating a transaction pattern based on the recorded information;

storing the transaction pattern in memory, including:

storing records relating to an interface presented to the single user;

storing records relating to tile submission of information by the single

user;

storing parameters required to complete the transaction;

storing records of a navigation of the single user during the transaction;

storing records relating to the navigation of the single user during the transaction;

storing information returned to the single user by the system;

storing information selected by tile single user;

executing the transaction pattern to automatically carry out another transaction upon

receiving the single user request for the transaction, including:

retrieving the transaction pattern using at least one of an automated agent and a

programmable agent;

recognizing a state of a remote application <u>in its interaction with the single</u>

<u>user, the state representing. an action to be performed by the remote application;</u>

submitting required parameters during the other transaction;

performing automatic navigation during the other transaction;

retrieving the content; and

relaying the content to the single user;

wherein tile transaction pattern further includes information submitted by the single user,

in each form and in each step of a login and account access process;

wherein the transaction pattern further includes the record of actions taken by the system

which enable access of the single user to the data, and the actions enabled by the data to retrieve

the content.

43. (Cancelled)

44. (Previously Presented') The method as recited in claim 1, wherein the transaction pattern

further includes an internal process, whereby submitted information is sent to servers and

databases of a portfolio account site of the single user.

45. (Previously Presented) The method as recited in claim 1, wherein the information submitted

by the single user is submitted via an e-commerce form, the information including a name of the

single user, credit card information associated with the single user, and a shipping address of the

single user.

46. (Currently Amended) The method as recited in claim 1, wherein the state of the remote

application is recognized based on content and probability of a web page represented as the state,

~~the state including a state of the remote application's interaction by the single user,~~ and includes

a dedicated connector used to create state definitions and to operate on states.

Reasons for Allowance

10.   The following is the Examiner's statement of reasons for allowance.

11.   Regarding the claimed terms, the Examiner notes that a "general term must be understood

in the context in which the inventor presents it." *In re Glaug* 283 F.3d 1335, 1340, 62 USPQ2d

1151, 1154 (Fed. Cir. 2002). Therefore the Examiner must interpret the claimed terms as found

on pages 1-25 of the specification. Clearly almost all the general terms in the claims may have multiple meanings. So where a claim term "is susceptible to various meanings, . . . the inventor's lexicography must prevail . . . ." *Id*. Using these definitions for the claims, the claimed invention was not reasonably found in the prior art.

12.   The primary reference Ukigawa (U.S. 2001/0021925) discloses as previously discussed. Ukigawa, however does not teach at least executing the transaction pattern to carry out another transaction, recording of the information to the transaction pattern, and wherein the execution of the transaction pattern includes recognizing a state of a remote application in its interaction with the single user, the state representing an action to be performed by the remote application. Moreover, the missing claimed elements from Ukigawa are not found in a reasonable number of references. Yet even if the missing claimed elements were found in a reasonable number of references, a person of ordinary skill in the art at the time the invention was made would *not* have been motivated to include these missing elements in an embodiment in the Ukigawa disclosure because: recognizing a state of a remote application in its interaction with the single user is not part of the transaction pattern and therefore would not merely be recorded and played back to automate the process of Ukigawa, but instead would require modifying the modification of Ukigawa which makes it automated.

13.   Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

14.   Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

15.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to JOSHUA MURDOUGH whose telephone number is (571)270-

3270. The Examiner can normally be reached on Monday - Thursday, 7:00 a.m. - 5:00 p.m.

16.   If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

supervisor, Andrew Fischer can be reached on (571) 272-6779. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

17.   If you would like assistance from a USPTO Customer Service Representative or access to

the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

Joshua Murdough
Examiner, Art Unit 3621

/ANDREW J. FISCHER/
Supervisory Patent Examiner, Art Unit 3621